



QUICK IDENTIFIER (IN PLANT COMMON NAME)

ALL PURPOSE SAND	WARNING! HARMFUL IF INHALED — Avoid breathing dust. Keep container closed. Use with adequate ventilation. Excessive exposure by inhalation over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis.
HEALTH	0*
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

SECTION 1 — IDENTITY

NAME Texas Industries, Inc.		ADDRESS 8100 Carpenter Freeway, Dallas, Texas 75247	
EMERGENCY TELEPHONE NUMBER (214) 637-3100	PERSON RESPONSIBLE FOR PREPARATION Environmental Manager	DATE PREPARED November, 1985	
COMMON NAME (USED ON LABEL) All Purpose Sand		FORMULA Predominantly SiO ₂ (See section 2)	
CHEMICAL NAME Silica sand	CHEMICAL FAMILY Silicate		
TRADE NAME & SYNONYMS All Purpose Sand, Play sand, silica sand, quartz sand			

SECTION 2 — HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS #	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Quartz	14808-60-7	90-100	See below	See below

$$TLV (quartz) = \frac{10 \text{ mg/m}^3}{\% \text{ respirable quartz} + 2} = PEL (quartz)$$

TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1985-86.

SECTION 3 — PHYSICAL DATA

BOILING POINT Does not apply	SPECIFIC GRAVITY (H ₂ O = 1) 2.3	VAPOR PRESSURE (mm Hg) Does not apply
PERCENT VOLATILE BY VOLUME (%) 0	VAPOR DENSITY (AIR = 1) Does not apply	EVAPORATION RATE (BUTYL ACETATE = 1) Does not apply
SOLUBILITY IN WATER Negligible (<0.1%)	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Light colored, grainy sand, no odor		

SECTION 4 — FIRE AND EXPLOSION DATA

FLASH POINT Will not ignite	FLAMMABLE LIMITS IN AIR (% BY VOLUME) LOWER: Does not apply UPPER: Does not apply	
EXTINGUISHING MEDIA Does not apply		
SPECIAL FIRE FIGHTING PROCEDURES Does not apply		
UNUSUAL FIRE AND EXPLOSION HAZARDS None	AUTO IGNITION TEMPERATURE None	

MATERIAL SAFETY DATA SHEET

SECTION 5 — HEALTH INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE— Congestion of nasal passages and respiratory systems

(2) CHRONIC OVEREXPOSURE—Excessive exposure by inhalation over an extended period of time may result in the development of

pulmonary diseases including pneumonconiosis and silicosis. Dust can cause inflammation of the lining

tissue of the interior of the nose and inflammation of the cornea.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory disorders or diseases may be aggravated by exposure.

CHEMICAL OR COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

Yes No

IARC

Yes No

OSHA

Yes No

OTHER EXPOSURE LIMITS

Established by the American Conference of Governmental Industrial Hygienists

Million particles per cubic foot = $\frac{\quad}{300}$

% quartz + 10

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

SECTION 6 — REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Does not apply

INCOMPATIBILITY (MATERIALS TO AVOID)

None

None

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

May Occur Will Not Occur

CONDITIONS TO AVOID

Does not apply

SECTION 7 — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Clean-up of spills may require personal protective equipment to prevent dust exposures. See Section 8

WASTE DISPOSAL METHOD

If this material, as provided by the manufacturer, becomes a waste, it does not meet the criteria of a hazardous waste as defined by the Environmental Protection Agency under the authority of the Resource Conservation and Recovery Act (40 CFR 261). Dispose of in accordance with Federal, State and local regulations.

SECTION 8 — PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NIOSH/MSHA approved for protection against silica and nuisance dusts

VENTILATION

General or local exhaust to maintain exposure below TLV/PEL.

PROTECTIVE GLOVES

To protect from abrasion

EYE PROTECTION

Safety glasses, goggles, or face shield, when necessary, to prevent eye injury

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

None

SECTION 9 — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Should be stored in a manner to prevent accumulations of airborne dust.

OTHER PRECAUTIONS

None